

Elastollan® R 2000

Thermoplastic Polyurethane Elastomer (Polyester)

Elastogran GmbH

| General | | | |
|------------------------|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Europe | | |
| Filler / Reinforcement | • Glass Fiber Reinforcement | | |
| Appearance | • Natural Color | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |
| Multi-Point Data | <ul style="list-style-type: none"> • Creep Modulus vs. Time (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1) | <ul style="list-style-type: none"> • Isothermal Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1) | <ul style="list-style-type: none"> • Shear Modulus vs. Temperature (ISO 11403-2) |

| Physical | Nominal Value | Unit | Test Method |
|------------------|---------------|-------------------|-----------------------|
| Density | | | |
| -- | 1.37 | g/cm ³ | ISO 1183 |
| -- | 1370 | kg/m ³ | ISO 1183 ² |
| Water Absorption | | | ISO 62 ² |
| Saturation | 1.0 | % | |
| Equilibrium | 0.20 | % | |

| Mechanical | Nominal Value | Unit | Test Method |
|------------------------|---------------|------|------------------------|
| Tensile Modulus | 2000 | MPa | ISO 527-2 |
| Tensile Stress (Break) | 65.0 | MPa | ISO 527-2 |
| Tensile Strain (Break) | 25 | % | ISO 527-2 |
| Tensile Creep Modulus | | | ISO 899-1 ² |
| 1 hr | 1600 | MPa | |
| 1000 hr | 1500 | MPa | |

| Impact | Nominal Value | Unit | Test Method |
|----------------------------------|---------------|-------------------|--------------------------|
| Charpy Notched Impact Strength | | | |
| -20°C | 12 | kJ/m ² | ISO 179 |
| 23°C | 40 | kJ/m ² | ISO 179 |
| -30°C | 7.00 | kJ/m ² | ISO 179/1eA ² |
| 23°C | 40.0 | kJ/m ² | ISO 179/1eA ² |
| Charpy Unnotched Impact Strength | | | ISO 179 |
| -20°C | 60 | kJ/m ² | |
| 23°C | No Break | | |

| Hardness | Nominal Value | Unit | Test Method |
|--------------------------|---------------|------|-------------|
| Shore Hardness (Shore D) | 67 | | ISO 868 |

| Thermal | Nominal Value | Unit | Test Method |
|-----------------------------|---------------|----------|--------------------------|
| Heat Deflection Temperature | | | |
| 0.45 MPa, Unannealed | 138 | °C | ISO 75-2/B |
| 0.45 MPa | 147 | °C | ISO 75-2 ² |
| 1.8 MPa, Unannealed | 115 | °C | ISO 75-2/A |
| 1.8 MPa | 114 | °C | ISO 75-2 ² |
| Vicat Softening Temperature | | | ISO 306 ² |
| 50°C/h, B (50N) | 92.0 | °C | |
| CLTE - Flow | | | |
| 23 to 80°C | 0.000020 | cm/cm/°C | ISO 11359-2 |
| -- | 0.000020 | cm/cm/°C | ISO 11359-2 ² |

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由IDES发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！

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Tuesday, January 12, 2010

| Electrical | Nominal Value | Unit | Test Method |
|----------------------------|---------------|-------|--------------------------|
| Surface resistivity | > 1.0E+15 | ohms | IEC 60093 ² |
| Volume resistivity | 1.0E+11 | ohm·m | IEC 60093 ² |
| Relative Permittivity | | | IEC 60250 ² |
| 100 Hz | 6.40 | | |
| 1 MHz | 5.00 | | |
| Dissipation Factor | | | IEC 60250 ² |
| 100 Hz | 0.032 | | |
| 1 MHz | 0.056 | | |
| Comparative tracking index | 600 | | IEC 60112 ² |
| Electric strength | 37 | kV/mm | IEC 60243-1 ² |

Additional Information

Note: These properties were tested in accordance with the DIN test standard.
Residue on Ignition, DIN 53568: 20 %

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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